

Seminarium Astrofizyczne
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ul. Pasteura 7, sala 404

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Gravitational wave observations and their significance

Detection of gravitational wave signals from mergers of black holes and neutron stars is one the most important discoveries of this century. I shall briefly present the phenomenon of gravitational radiation as predicted by Einstein's general relativity. I shall describe gravitational wave detectors and methods of analyzing gravitational wave data. I shall review the observations made during the two observational runs of LIGO and Virgo detector projects. I shall present the physical and astrophysical applications of these observations. I shall summarize the most recent observations of gravitational wave signals made during the third observational run that is currently underway.

Serdecznie zapraszam,
Agnieszka Majczyna